



0070777-000014.txt
SEQUENCE LISTING

<110> REGEN Biotech, Inc.
<120> Use of a peptide that interacts with alpha v beta3 integrin of endothelial cell
<130> OP04-1024
<150> KR 10-2003-0021065
<151> 2003-04-03
<160> 57
<170> KopatentIn 1.71
<210> 1
<211> 683
<212> PRT
<213> Homo sapiens

<400> 1
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Gly Pro Ala Ala Thr Leu Ala Gly Pro Ala Lys Ser Pro Tyr Gln Leu
20 25 30
Val Leu Gln His Ser Arg Leu Arg Gly Arg Gln His Gly Pro Asn Val
35 40 45
Cys Ala Val Gln Lys Val Ile Gly Thr Asn Arg Lys Tyr Phe Thr Asn
50 55 60
Cys Lys Gln Trp Tyr Gln Arg Lys Ile Cys Gly Lys Ser Thr Val Ile
65 70 75 80
Ser Tyr Glu Cys Cys Pro Gly Tyr Glu Lys Val Pro Gly Glu Lys Gly
85 90 95
Cys Pro Ala Ala Leu Pro Leu Ser Asn Leu Tyr Glu Thr Leu Gly Val
100 105 110
Val Gly Ser Thr Thr Thr Gln Leu Tyr Thr Asp Arg Thr Glu Lys Leu
115 120 125
Arg Pro Glu Met Glu Gly Pro Gly Ser Phe Thr Ile Phe Ala Pro Ser
130 135 140
Asn Glu Ala Trp Ala Ser Leu Pro Ala Glu Val Leu Asp Ser Leu Val
145 150 155 160
Ser Asn Val Asn Ile Glu Leu Leu Asn Ala Leu Arg Tyr His Met Val
165 170 175
Gly Arg Arg Val Leu Thr Asp Glu Leu Lys His Gly Met Thr Leu Thr
180 185 190
Ser Met Tyr Gln Asn Ser Asn Ile Gln Ile His His Tyr Pro Asn Gly
195 200 205
Ile Val Thr Val Asn Cys Ala Arg Leu Leu Lys Ala Asp His His Ala
210 215 220
Thr Asn Gly Val Val His Leu Ile Asp Lys Val Ile Ser Thr Ile Thr
225 230 235 240
Asn Asn Ile Gln Gln Ile Ile Glu Ile Glu Asp Thr Phe Glu Thr Leu
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250

255

Arg	Ala	Ala	Val 260	Ala	Ala	Ser	Gly	Leu 265	Asn	Thr	Met	Leu	Glu 270	Gly	Asn
Gly	Gln	Tyr 275	Thr	Leu	Leu	Ala	Pro 280	Thr	Asn	Glu	Ala	Phe 285	Glu	Lys	Ile
Pro	Ser 290	Glu	Thr	Leu	Asn	Arg 295	Ile	Leu	Gly	Asp	Pro 300	Glu	Ala	Leu	Arg
Asp 305	Leu	Leu	Asn	Asn	His 310	Ile	Leu	Lys	Ser	Ala 315	Met	Cys	Ala	Glu	Ala 320
Ile	Val	Ala	Gly	Leu 325	Ser	Val	Glu	Thr	Leu 330	Glu	Gly	Thr	Thr	Leu 335	Glu
Val	Gly	Cys	Ser 340	Gly	Asp	Met	Leu	Thr 345	Ile	Asn	Gly	Lys	Ala 350	Ile	Ile
Ser	Asn	Lys 355	Asp	Ile	Leu	Ala	Thr 360	Asn	Gly	Val	Ile	His 365	Tyr	Ile	Asp
Glu	Leu 370	Leu	Ile	Pro	Asp	Ser 375	Ala	Lys	Thr	Leu	Phe 380	Glu	Leu	Ala	Ala
Glu 385	Ser	Asp	Val	Ser	Thr 390	Ala	Ile	Asp	Leu	Phe 395	Arg	Gln	Ala	Gly	Leu 400
Gly	Asn	His	Leu	Ser 405	Gly	Ser	Glu	Arg	Leu 410	Thr	Leu	Leu	Ala	Pro 415	Leu
Asn	Ser	Val	Phe 420	Lys	Asp	Gly	Thr	Pro 425	Pro	Ile	Asp	Ala	His 430	Thr	Arg
Asn	Leu	Leu 435	Arg	Asn	His	Ile	Ile 440	Lys	Asp	Gln	Leu	Ala 445	Ser	Lys	Tyr
Leu	Tyr 450	His	Gly	Gln	Thr	Leu 455	Glu	Thr	Leu	Gly	Gly 460	Lys	Lys	Leu	Arg
Val 465	Phe	Val	Tyr	Arg	Asn 470	Ser	Leu	Cys	Ile	Glu 475	Asn	Ser	Cys	Ile	Ala 480
Ala	His	Asp	Lys	Arg 485	Gly	Arg	Tyr	Gly	Thr 490	Leu	Phe	Thr	Met	Asp 495	Arg
Val	Leu	Thr	Pro 500	Pro	Met	Gly	Thr	Val 505	Met	Asp	Val	Leu	Lys 510	Gly	Asp
Asn	Arg	Phe 515	Ser	Met	Leu	Val	Ala 520	Ala	Ile	Gln	Ser	Ala 525	Gly	Leu	Thr
Glu	Thr 530	Leu	Asn	Arg	Glu	Gly 535	Val	Tyr	Thr	Val	Phe 540	Ala	Pro	Thr	Asn
Glu 545	Ala	Phe	Arg	Ala	Leu 550	Pro	Pro	Arg	Glu	Arg 555	Ser	Arg	Leu	Leu	Gly 560
Asp	Ala	Lys	Glu	Leu 565	Ala	Asn	Ile	Leu	Lys 570	Tyr	His	Ile	Gly	Asp 575	Glu
Ile	Leu	Val	Ser 580	Gly	Gly	Ile	Gly	Ala 585	Leu	Val	Arg	Leu	Lys 590	Ser	Leu
Gln	Gly	Asp 595	Lys	Leu	Glu	Val	Ser 600	Leu	Lys	Asn	Asn	Val 605	Val	Ser	Val

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Asn Lys Glu Pro Val Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val
 610 615 620
 Val His Val Ile Thr Asn Val Leu Gln Pro Pro Ala Asn Arg Pro Gln
 625 630 635 640
 Glu Arg Gly Asp Glu Leu Ala Asp Ser Ala Leu Glu Ile Phe Lys Gln
 645 650 655
 Ala Ser Ala Phe Ser Arg Ala Ser Gln Arg Ser Val Arg Leu Ala Pro
 660 665 670
 Val Tyr Gln Lys Leu Leu Glu Arg Met Lys His
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 Glu Leu Leu Asn Ala Leu Arg Tyr His Met Val Gly Arg Arg Val Leu
 35 40 45
 Thr Asp Glu Leu Lys His Gly Met Thr Leu Thr Ser Met Tyr Gln Asn
 50 55 60
 Ser Asn Ile Gln Ile His His Tyr Pro Asn Gly Ile Val Thr Val Asn
 65 70 75 80
 Cys Ala Arg Leu Leu Lys Ala Asp His His Ala Thr Asn Gly Val Val
 85 90 95
 His Leu Ile Asp Lys Val Ile
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 Ala Ala Val Ala Ala Ser Gly Leu Asn Thr Met Leu Glu Gly Asn Gly
 20 25 30
 Gln Tyr Thr Leu Leu Ala Pro Thr Asn Glu Ala Phe Glu Lys Ile Pro
 35 40 45
 Ser Glu Thr Leu Asn Arg Ile Leu Gly Asp Pro Glu Ala Leu Arg Asp
 50 55 60
 Leu Leu Asn Asn His Ile Leu Lys Ser Ala Met Cys Ala Glu Ala Ile
 65 70 75 80
 Val Ala Gly Leu Ser Val Glu Thr Leu Glu Gly Thr Thr Leu Glu Val
 85 90 95

Gly Cys Ser Gly Asp Met Leu Thr Ile Asn Gly Lys Ala Ile Ile Ser
 100 105 110
 Asn Lys Asp Ile Leu Ala Thr Asn Gly Val Ile His Tyr Ile Asp Glu
 115 120 125
 Leu Leu Ile
 130

<210> 4
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 Pro Asp Ser Ala Lys Thr Leu Phe Glu Leu Ala Ala Glu Ser Asp Val
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 Ser Thr Ala Ile Asp Leu Phe Arg Gln Ala Gly Leu Gly Asn His Leu
 20 25 30
 Ser Gly Ser Glu Arg Leu Thr Leu Leu Ala Pro Leu Asn Ser Val Phe
 35 40 45
 Lys Asp Gly Thr Pro Pro Ile Asp Ala His Thr Arg Asn Leu Leu Arg
 50 55 60
 Asn His Ile Ile Lys Asp Gln Leu Ala Ser Lys Tyr Leu Tyr His Gly
 65 70 75 80
 Gln Thr Leu Glu Thr Leu Gly Gly Lys Lys Leu Arg Val Phe Val Tyr
 85 90 95
 Arg Asn Ser Leu Cys Ile Glu Asn Ser Cys Ile Ala Ala His Asp Lys
 100 105 110
 Arg Gly Arg Tyr Gly Thr Leu Phe Thr Met Asp Arg Val Leu Thr Pro
 115 120 125
 Pro

<210> 5
 <211> 131
 <212> PRT
 <213> Homo sapiens

<400> 5
 Met Gly Thr Val Met Asp Val Leu Lys Gly Asp Asn Arg Phe Ser Met
 1 5 10 15
 Leu Val Ala Ala Ile Gln Ser Ala Gly Leu Thr Glu Thr Leu Asn Arg
 20 25 30
 Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn Glu Ala Phe Arg Ala
 35 40 45
 Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu
 50 55 60
 Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val Ser Gly
 65 70 75 80
 Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp Lys Leu
 85 90 95

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Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu Pro Val
100 105 110

Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val Val His Val Ile Thr
115 120 125

Asn Val Leu
130

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<400> 6
Arg Ala Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys
1 5 10 15

Glu Leu Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val
20 25 30

Ser Gly Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp
35 40 45

Lys Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu
50 55 60

Pro Val Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val Val His Val
65 70 75 80

Ile Thr Asn Val Leu
85

<210> 7
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<400> 7
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1 5 10 15

Leu Val Ala Ala Ile Gln Ser Ala Gly Leu Thr Glu Thr Leu Asn Arg
20 25 30

Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn Glu Ala Phe Arg Ala
35 40 45

Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu
50 55 60

Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val Ser Gly
65 70 75 80

Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp Lys Leu
85 90 95

Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu Pro Val
100 105 110

Ala Glu Pro Asp Ile Met Ala
115

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 20 25 30
 Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn Glu Ala Phe Arg Ala
 35 40 45
 Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu
 50 55 60
 Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val Ser Gly
 65 70 75 80
 Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp Lys Leu
 85 90 95
 Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu Pro Val
 100 105 110

Ala

<210> 9
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<400> 9
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 1 5 10 15
 Glu Leu Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val
 20 25 30
 Ser Gly Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp
 35 40 45
 Lys Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu
 50 55 60
 Pro Val Ala Glu Pro Asp Ile Met Ala
 65 70

<210> 10
 <211> 67
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 <213> Homo sapiens

<400> 10
 Arg Ala Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys
 1 5 10 15
 Glu Leu Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val
 20 25 30
 Ser Gly Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp
 35 40 45
 Lys Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu
 50 55 60

Pro Val Ala
65

<210> 11
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> D-IV-AA(18)

<400> 11
Lys Glu Leu Ala Asn Ile Leu Lys Ala Ala Ile Gly Asp Glu Ile Leu
1 5 10 15

Val Ser

<210> 12
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> D-IV-L(18)

<400> 12
Lys Glu Ser Ala Asn Ser Ser Lys Tyr His Ile Gly Asp Glu Ile Leu
1 5 10 15

Val Ser

<210> 13
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> D-IV-R(18)

<400> 13
Lys Glu Leu Ala Asn Ile Leu Lys Tyr His Ser Gly Asp Glu Ser Ser
1 5 10 15

Val Ser

<210> 14
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> D-IV-LYHR(18)

<400> 14
Lys Glu Ser Ala Asn Ser Ser Lys Tyr His Ser Gly Asp Glu Ser Ser
1 5 10 15

val ser

<210> 15
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> D-IV-LAA(18)

<400> 15
 Lys Glu Ser Ala Asn Ser Ser Lys Ala Ala Ile Gly Asp Glu Ile Leu
 1 5 10 15

val ser

<210> 16
 <211> 18
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<220>
 <223> D-IV-AAR(18)

<400> 16
 Lys Glu Leu Ala Asn Ile Leu Lys Ala Ala Ser Gly Asp Glu Ser Ser
 1 5 10 15

val ser

<210> 17
 <211> 29
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<220>
 <223> D-IV-AA

<400> 17
 Gly Asp Ala Lys Glu Leu Ala Asn Ile Leu Lys Ala Ala Ile Gly Asp
 1 5 10 15

Glu Ile Leu val ser Gly Gly Ile Gly Ala Leu val Arg
 20 25

<210> 18
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<400> 18
 Gly Asp Ala Lys Glu Ser Ala Asn Ser Ser Lys Tyr His Ile Gly Asp
 1 5 10 15

Glu Ile Leu Val Ser Gly Gly Ile Gly Ala Leu Val Arg
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<210> 19
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<400> 19
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 1 5 10 15

Glu Ser Ser Val Ser Gly Gly Ile Gly Ala Leu Val Arg
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<400> 20
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 1 5 10 15

Glu Ser Ser Val Ser Gly Gly Ile Gly Ala Leu Val Arg
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<220>
 <223> D-IV-LAA

<400> 21
 Gly Asp Ala Lys Glu Ser Ala Asn Ser Ser Lys Ala Ala Ile Gly Asp
 1 5 10 15

Glu Ile Leu Val Ser Gly Gly Ile Gly Ala Leu Val Arg
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 <223> D-IV-AAR

<400> 22
 Gly Asp Ala Lys Glu Leu Ala Asn Ile Leu Lys Ala Ala Ser Gly Asp
 1 5 10 15

Glu Ser Ser Val Ser Gly Gly Ile Gly Ala Leu Val Arg
 20 25

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 <212> PRT
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<220>
 <223> D-I YH18

<400> 23
 Ile Glu Leu Leu Asn Ala Leu Arg Tyr His Met Val Gly Arg Arg Val
 1 5 10 15

Leu Thr

<210> 24
 <211> 18
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<220>
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<400> 24
 Glu Ala Leu Arg Asp Leu Leu Asn Asn His Ile Leu Lys Ser Ala Met
 1 5 10 15

Cys Ala

<210> 25
 <211> 18
 <212> PRT
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<220>
 <223> D-III YH18

<400> 25
 Asp Gln Leu Ala Ser Lys Tyr Leu Tyr His Gly Gln Thr Leu Glu Thr
 1 5 10 15

Leu Gly

<210> 26
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> D-IV YH18

<400> 26
 Lys Glu Leu Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu
 1 5 10 15

Val ser

<210> 27
 <211> 18
 <212> PRT
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<220>
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<400> 27
 Lys Glu Leu Ala Asn Ile His Gly Ile Lys Leu Tyr Asp Glu Ile Leu
 1 5 10 15

Val ser

<210> 28
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> BIGH3_HUMAN

<400> 28
 Ser Asn Val Asn Ile Glu Leu Leu Asn Ala Leu Arg Tyr His Met Val
 1 5 10 15

Gly Arg Arg Val Leu Thr Asp Glu Leu Lys His Gly Met Thr
 20 25 30

<210> 29
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> BIGH3-PIG

<400> 29
 Ser Asn Val Asn Ile Glu Leu Leu Asn Ala Leu Arg Tyr His Met Val
 1 5 10 15

Asp Arg Arg Val Leu Thr Asp Glu Leu Lys His Gly Met Ala
 20 25 30

<210> 30
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> BIGH3_CHICK

<400> 30
 Ser Asn Val Asn Ile Glu Leu Leu Asn Ala Leu Arg Tyr His Met Val
 1 5 10 15

Asn Lys Arg Val Leu Thr Asp Asp Leu Lys His Gly Thr Thr
 20 25 30

<210> 31
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> OSF2_MOUSE

<400> 31
 Asn Asn Val Asn Val Glu Leu Leu Asn Ala Leu His Ser His Met Val
 1 5 10 15
 Asn Lys Arg Met Leu Thr Lys Asp Leu Lys His Gly Met Val
 20 25 30

<210> 32
 <211> 29
 <212> PRT
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<220>
 <223> BIGH3_HUMAN

<400> 32
 Gly Asp Pro Glu Ala Leu Arg Asp Leu Leu Asn Asn His Ile Leu Lys
 1 5 10 15
 Ser Ala Met Cys Ala Glu Ala Ile Val Ala Gly Leu Ser
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<210> 33
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> BIGH3-PIG

<400> 33
 Gly Asp Pro Glu Ala Leu Arg Asp Leu Leu Asn Asn His Ile Leu Lys
 1 5 10 15
 Ser Ala Met Cys Ala Glu Ala Ile Val Ala Gly Leu Ser
 20 25

<210> 34
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> BIGH3_CHICK

<400> 34
 Gly Asp Pro Glu Ala Leu Arg Asp Leu Leu Asn His His Ile Leu Lys
 1 5 10 15
 Ser Ala Met Cys Ala Glu Ala Ile Ile Ala Gly Leu Thr
 20 25

<210> 35
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<220>
 <223> OSF2_HUMAN

<400> 35
 Gly Asp Lys Val Ala Ser Glu Ala Leu Met Lys Tyr His Ile Leu Asn
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 Thr Leu Gln Cys Ser Glu Ser Ile Met Gly Gly Ala Val
 20 25

<210> 36
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<220>
 <223> OSF2_MOUSE

<400> 36
 Gly Asp Lys Val Ala Ser Glu Ala Leu Met Lys Tyr His Ile Leu Asn
 1 5 10 15
 Thr Leu Gln Cys Ser Glu Ala Ile Thr Gly Gly Ala Val
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<210> 37
 <211> 29
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<220>
 <223> BIGH3_HUMAN

<400> 37
 Gly Asp Ala Lys Glu Leu Ala Asn Ile Leu Lys Tyr His Ile Gly Asp
 1 5 10 15
 Glu Ile Leu Val Ser Gly Gly Ile Gly Ala Leu Val Arg
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<210> 38
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 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 38
 Gly Asn Ala Lys Glu Leu Ala Asn Ile Leu Lys Tyr His Val Gly Asp
 1 5 10 15
 Glu Ile Leu Val Ser Gly Gly Ile Gly Ala Leu Val Arg
 20 25

<210> 39
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<220>
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<400> 39
 Gly Asn Ala Lys Glu Leu Ala Ser Ile Leu Lys Phe His Met Ala Asp
 1 5 10 15
 Glu Ile Leu Val Ser Gly Ala Val Ser Ala Leu Val Arg
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<220>
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<400> 40
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 Gly Arg Leu Thr Lys Asp Asp Leu Ile Lys Leu Gly Glu
 20 25

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 <213> Artificial Sequence

<220>
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<400> 41
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 1 5 10 15
 Gly Lys Phe Thr Gln Ala Asp Leu Cys Arg Leu Ser Thr
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<210> 42
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 <223> SLL1483

<400> 42
 Pro Glu Asn Lys Asp Lys Leu Val Lys Ile Leu Thr Tyr His Val Val
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 Pro Gly Lys Ile Thr Ala Ala Gln Val Gln Ser Gly Glu
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<210> 43
 <211> 29
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<220>
 <223> OSF2_HUMAN

<400> 43
 Arg Asp Lys Asn Ala Leu Gln Asn Ile Ile Leu Tyr His Leu Thr Pro
 1 5 10 15
 Gly val Phe Ile Gly Lys Gly Phe Glu Pro Gly val Thr
 20 25

<210> 44
 <211> 29
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 <213> Artificial Sequence

<220>
 <223> OSF2_MOUSE

<400> 44
 Gly Asp Lys Asn Ala Leu Gln Asn Ile Ile Leu Tyr His Leu Thr Pro
 1 5 10 15
 Gly val Tyr Ile Gly Lys Gly Phe Glu Pro Gly val Thr
 20 25

<210> 45
 <211> 27
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<400> 45
 Thr Asp Ala Lys Leu Leu Ser Ser Ile Leu Thr Tyr His Val Ile Ala
 1 5 10 15
 Gly Gln Ala Ser Pro Ser Arg Ile Asp Gly Thr
 20 25

<210> 46
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 <212> PRT
 <213> Artificial Sequence

<220>
 <223> MPT83

<400> 46
 Thr Asp Ala Lys Leu Leu Ser Ser Ile Leu Thr Tyr His Val Ile Ala
 1 5 10 15
 Gly Gln Ala Ser Pro Ser Arg Ile Asp Gly Thr
 20 25

<210> 47
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Q48948_MYCBO

<400> 47
 Thr Asn Ser Ser Leu Leu Thr Ser Ile Leu Thr Tyr His Val Val Ala
 1 5 10 15
 Gly Gln Thr Ser Pro Ala Asn Val Val Gly Thr
 20 25

<210> 48
 <211> 27
 <212> PRT
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<220>
 <223> Q50769_MYCTU

<400> 48
 Thr Asn Ser Ser Leu Leu Thr Ser Ile Leu Thr Tyr His Val Val Ala
 1 5 10 15
 Gly Gln Thr Ser Pro Ala Asn Val Val Gly Thr
 20 25

<210> 49
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 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Putative Secreted protein

<400> 49
 Asn Asp Arg Ala Gln Leu Lys Lys Val Leu Thr Tyr His Val Val Glu
 1 5 10 15
 His Lys Lys Ile Thr Lys Ala Gln Leu Pro His Gly Thr
 20 25

<210> 50
 <211> 29
 <212> PRT
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<220>
 <223> Fasciclin

<400> 50
 Glu Gly Arg Gly Cys Ala Ser Asn Ile Leu Lys Asn His Leu Leu Asp
 1 5 10 15
 Leu Thr Phe Cys Ser Leu Ala Thr Val Pro Gly Ala Lys
 20 25

<210> 51
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> HLC-32

<400> 51
 Lys Asp Pro Ala Gly Lys Leu Arg Asn Leu Leu Lys Tyr His Val Ile
 1 5 10 15
 Ser Asp Val Lys Tyr Ser Val Ser Leu Ser Ser Gly Gln Arg
 20 25 30

<210> 52
 <211> 29
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<220>
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<400> 52
 Ser Lys Pro Ala Asp Pro Met Ala Leu Val Lys Thr His Ile Val Glu
 1 5 10 15
 Asp Val Val Cys Cys Ala Gly Ile Ile Pro Thr Asn Trp
 20 25

<210> 53
 <211> 33
 <212> PRT
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<220>
 <223> BIGH3_HUMAN

<400> 53
 Arg Asn Leu Leu Arg Asn His Ile Ile Lys Asp Gln Leu Ala Ser Lys
 1 5 10 15
 Tyr Leu Tyr His Gly Gln Thr Leu Asp Thr Leu Gly Gly Lys Lys Leu
 20 25 30

Arg

<210> 54
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> BIGH3_PIG

<400> 54
 Lys Asn Leu Leu Leu Asn His Met Ile Lys Asp Gln Leu Ala Ser Lys
 1 5 10 15

Tyr Leu Tyr His Gly Gln Thr Leu Asp Thr Leu Gly Gly Lys Lys Leu
 20 25 30

Arg

<210> 55
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 <213> Artificial Sequence

<220>
 <223> BIGH3_CHICK

<400> 55
 Lys Asn Leu Leu Asn His Ile Val Lys Asp Gln Leu Ser Ser Lys
 1 5 10 15

Tyr Leu Tyr His Gly Gln Lys Leu Gln Thr Leu Gly Asp Lys Glu Leu
 20 25 30

Arg

<210> 56
 <211> 33
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<220>
 <223> OSF2_HUMAN

<400> 56
 Lys Leu Ile Leu Gln Asn His Ile Leu Lys Val Lys Val Gly Leu Asn
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Glu Leu Tyr Asn Gly Gln Ile Leu Glu Thr Ile Gly Gly Lys Gln Leu
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Arg